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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re:**  
**U.S. Patent No:** 6,843,900 B2  
**Inventors:** Dutta et al.  
**Issued:** January 18, 2005  
**Serial No.:** 10/040,036  
**Examiner:** Kaj K. Olsen  
**Group Art Unit:** 1753  
**Title:** POTENTIOMETRIC NO<sub>x</sub> SENSORS BASED ON YTTRIA-STABILIZED ZIRCONIA WITH ZEOLITE MODIFIED ELECTRODE

**Docket No.:** OSU1159-159A

**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

*SEARCHED*

**CERTIFICATE OF TRANSMISSION UNDER 37 C.F.R. §1.8 (A)**

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office at Central Fax No. (571) 273-8300 on April 21, 2006.

*Trisha M. Beachy-Bryant*  
Trisha M. Beachy-Bryant Paralegal

**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8 (A)**

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Trisha M. Beachy*  
Trisha M. Beachy, Paralegal

Sir:

**REQUEST FOR CERTIFICATE OF CORRECTION**  
**PURSUANT TO 37 C.F.R. 1.322**

Transmitted herewith is a Certificate of Correction for the above-referenced patent. Upon reviewing the patent, the patentee noted that the following references were omitted by the Patent and Trademark Office, which should be inserted as follows:

U.S. Patent No. 6,843,900 B2  
Request for Certificate of Correction  
Page 2 of 3

In References Cited (56), Other Publications, please insert -

Zhuiykov, S. et al., *Stabilized Zirconia-Based NOx Sensor Using ZnFe<sub>2</sub>O<sub>4</sub> Sensing Electrode*, *Electrochemical and Solid-State Letters*, 4 (9), H19-H21 (2001).

Ruhland, B. et al., *Gas-kinetic Interactions of Nitrous Oxides with SnO<sub>2</sub> Surfaces*, *Sensors and Actuators B* 50, 85-94 (1998).

Imanaka, N. et al., *Nitrogen Oxides Sensor Based on Silicon Nitride Refractory Ceramics*, *Electrochemical and Solid-State Letters*, 2 (2), 100-101 (1999).

Zhuiykov, S. et al., *Potentiometric NOx Sensor Based on Stabilized Zirconia and NiCr<sub>2</sub>O<sub>4</sub> Sensing Electrode Operating High Temperatures*, *Electrochemistry Communications* 3, 97-101 (2001).

Miura, N. et al., *Selective Detection of NO by Using an Amperometric Sensor Based on Stabilized Zirconia and Oxide Electrode*, *Solid State Ionics* 117, 283-290 (1999).

Sberveglieri, G., et al., *Response to Nitric Oxide of Thin and Thick SnO<sub>2</sub> Films Containing Trivalent Additives*, *Sensors and Actuators B* 1, 79-82 (1990).

Baratto, C. et al., *Gold-Catalysed Porous Silicon for NOx Sensing*, *Sensors and Actuators B* 68, 74-80 (2000).

Fruhberger, B. et al., *Detection and Quantification of Nitric Oxide in Human Breath Using a Semiconducting Oxide Based Chemiresistive Microsensor*, *Sensors and Actuators B* 76, 226-234 (2001).

Ono, M. et al., *Amperometric Based on NASICON and NO Oxidation Catalysts for Detection of Total NOx in Atmospheric Environment*, *Solid State Ionics* 136-137, 583-588 (2000).

Fleischer, M. et al., *Selective Gas Detection with High-Temperature Operated Metal Oxides Using Catalytic Filters*, *Sensors and Actuators B* 69, 205-210 (2000).

Kitsukawa, S. et al., *The Interference Elimination for Gas Sensor by Catalyst Filters*, *Sensors and Actuators B* 65, 120-121 (2000).

Hugon, O. et al., *Gas Separation with a Zeolite Filter, Application to the Selectivity Enhancement of Chemical Sensors*, *Sensors and Actuators B* 67, 235-243 (2000).

U.S. Patent No. 6,843,900 B2  
Request for Certificate of Correction  
Page 3 of 3

Kaneyasu, K. et al., *A Carbon Dioxide Gas Sensor Based on Solid Electrolyte for Air Quality Control*, Sensors and Actuators B66, 58-58 (2000).

Szabo, N. et al., *Microporous Zeolite Modified yttria Stabilized Zirconia (YSZ) Sensors for Nitric Oxide (NO) Determination in Harsh Environments*, Sensors and Actuators B 4142, 1-8 (2001). --

A review of the Application as submitted and thereafter as amended, confirms that the errors were made in the printing of the patent.

Since the above noted errors for which a Certificate of Correction is sought were a result of Patent Office mistake, no fee is due (35 U.S.C. § 254). Approval of the Certificate of Correction respectfully is solicited.

Respectfully submitted,

Date: 2-14-05

By:

  
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PTO/SB/44 (04-04)

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(Also Form PTO-1 050)UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO : 6,843,900 B2

DATED : January 18, 2005

INVENTOR(S) : Dutta et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In References Cited (56), Other Publications, please insert --

Zhuiykov, S. et al., *Stabilized Zirconia-Based NOx Sensor Using ZnFe<sub>2</sub>O<sub>4</sub> Sensing Electrode*, *Electrochemical and Solid-State Letters*, 4 (9), H19-H21 (2001).

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PAGE 4/5 \* RCVD AT 4/21/2006 2:57:08 PM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-2/20 \* DNIS:2738300 \* CSID:6147925536 \* DURATION (mm:ss):02:04

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**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE OF CORRECTION**

PATENT NO : 6,843,900 B2

DATED : January 18, 2005

INVENTOR(S) : Dutta et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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Ono, M. et al., *Amperometric Based on NASICON and NO Oxidation Catalysts for Detection of Total NOx in Atmospheric Environment*, Solid State Ionics 136-137, 583-588 (2000).

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PATENT NO. 6,843,900 B2

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PTO/SB/44 (04-05)

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CERTIFICATE OF CORRECTION

PATENT NO. : 6,898,857 B2

Page 1 of 1

APPLICATION NO.: 10/399,990

ISSUE DATE : May 31, 2005

INVENTOR(S) : SLACK, Maurice William

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the drawings, Sheet 1, Fig. 1, reference numeral 2 should be applied to the exterior surface of the tubular (rather than reference numeral 4).

In the drawings, Sheet 1, Fig. 1, reference numeral 4 should be applied to the slots in the tubular (rather than reference numeral 2).

In Claim 1, Column 9, Line 58, after "liners" insert --having largely longitudinally oriented slots--.

In Claim 1, Column 9, Line 62, after "surface" insert --, said slots being oriented largely longitudinally relative to the axis of the liner--.

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